

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/796,500	03/08/2004	John H. Bui	015114-070600US	3009
26059	7590 10/17/2005		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW LLP/ 015114			WELLS, KENNETH B	
TWO EMBARCADERO CENTER 8TH FLOOR		ART UNIT	PAPER NUMBER	
SAN FRANCISCO, CA 94111-3834			2816	

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		AV.	,			
	Application No.	Applicant(s)				
	10/796,500	BUI, JOHN H.				
Office Action Summary	Examiner	Art Unit				
	Kenneth B. Wells	2816				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 A	<u>ugust 2005</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-6,8,10-12,14 and 16-19</u> is/are pend	ing in the application.					
4a) Of the above claim(s) is/are withdraw	= ' '					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-6,10-12,14 and 16-19</u> is/are reje	ected.					
7) Claim(s) <u>3 and 8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 18 August 2005 is/are:	a)⊠ accepted or b)☐ objected	to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	ion No				
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau	' ''					
* See the attached detailed Office action for a list	of the certified copies not receive	∍d.				
Attachment(s)	,, ¬ .					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal F	Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>8/30/04</u> .	6) Other:					

Art Unit: 2816

- 1. Applicant's election of species C (corresponding to Fig. 5A) is hereby acknowledged. Examination of claims 1-6, 8,10-12,14 and 16-19 is now set forth.
- 2. The disclosure is objected to because of the following informalities: On page 2, line 8, the word --as-- should be inserted after "used". On page 4, line 10, "difference" is misspelled. On line 27 of page 4, --the-- should be inserted after the comma. Finally, on page 6, line 13, "transistor" should be made plural.

 Appropriate correction is required.
- 3. The following is a quotation of the appropriate .

 paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5, 10-12, 14 and 16-19 are rejected under 35 U.S.C. 102(b) as being anticipated by either Alexander or Lewicki et al.

In Alexander, note Figs. 1 and 3, where the recited first differential pair reads on transistors 12 and 14; the

Art Unit: 2816

recited third and fourth transistors read on transistors 40 and 42; the recited multiplexer is shown in Fig. 3 (all of the circuitry to the left of the vertical-line). The limitations on the last three lines of claim 1 are deemed to be inherent in the operation of Alexander. The disable signal is shown in Fig. 3 of Alexander as the signal /Pc (applied to the clock inputs of flip-flops 68 and 69) and the recited plural programming signals are the control inputs of switches 80, 82, 84, etc. The further functional limitations recited in claims 2, 10, 11, 12, 14 and 16-19 are deemed to be inherent in the operation of the Alexander circuitry shown in Figs. 1 and 3. The recited fifth and sixth transistors of claim 4 read on the transistors 22 and 24 (they receive the input signal at terminals 30, 32 at their drain terminals when switches 50 and 52 are closed).

In Lewicki et al, note Fig. 2, where the recited first differential pair reads on transistors M1 and M2; the recited third and fourth transistors read on M3 and M4; and the recited multiplexer reads on the combination of circuit 21, switches s1-s4, and the voltage source labeled VHYSTERESIS. As noted above with regard to Alexander, the recited functional limitation of the claims are deemed to

Application/Control Number: 10/796,500

Art Unit: 2816

be inherent in the Fig. 2 circuitry of Lewicki et al. The disable signal is signal RESET in Fig. 2 of Lewicki.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Alexander or Lewicki et al.

The use of the Alexander or Lewicki et al circuitry discussed above in a field programmable gate array would have been obvious to one having ordinary skill in the art, the motivation being to obtain the advantages taught by the two primary references in an environment which would employ the hysteresis comparators taught by these two references.

5. Claims 3 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2816

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth B. Wells Primary Examiner Art Unit 2816

October 13, 2005